

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61K38/20 A61P37/00 A61P33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 A61K C07K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, PAJ, MEDLINE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SUTO AKIRA ET AL: "Interleukin 21 prevents antigen-induced IgE production by inhibiting germ line Cepsilon transcription of IL-4-stimulated B cells." BLOOD, [Online] vol. 100, no. 13, 1 August 2002 (2002-08-01), pages 4565-4573, XP002270578 ISSN: 0006-4971 Retrieved from the Internet: <URL: http://www.bloodjournal.org/cgi/content/full/100/13/4565> [retrieved on 2004-02-19]</p> <p>last paragraph in the discussion "it is suggested that il-21 itself or the mimic of il-21 signaling may be useful for the treatment of allergic diseases</p>	1-3, 6-8, 11-13
A	<p>---</p> <p>-/-</p>	4, 5, 9, 10

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

*** Special categories of cited documents :**

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

17 February 2004

Date of mailing of the International search report

- 3. 03. 2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/I 13/00691

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 53761 A (ZYMOGENETICS INC) 14 September 2000 (2000-09-14) claim 30	1,4-6, 9-13
A	---	2,3,7-9
P,X	WO 03 028630 A (DONALDSON DEBRA D ;LOWE LESLIE D (US); WITEK JOANN S (US); WYETH () 10 April 2003 (2003-04-10) the whole document	1-13
E	WO 03 087320 A (MOLL THOMAS ;STROM TERRY B (US); ZHENG XIN XIAO (US); BETH ISRAEL) 23 October 2003 (2003-10-23) the whole document	1,6, 11-13
X	WO 99 61617 A (HUMAN GENOME SCIENCES INC ;EBNER REINHARD (US); RUBEN STEVEN M (US) 2 December 1999 (1999-12-02) page 76, lines 15-34 (allergic and autoimmune diseases) and page 76 lines 15-24 (parasitic agent)	1-13
A	WO 02 10393 A (LUDWIG INST CANCER RES) 7 February 2002 (2002-02-07) the whole document	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/1 03/00691

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0053761	A 14-09-2000	AU 3731200	A	28-09-2000
		BR 0008772	A	07-05-2002
		CA 2366921	A1	14-09-2000
		CN 1378595	T	06-11-2002
		CZ 20013184	A3	17-04-2002
		EP 1165791	A2	02-01-2002
		HU 0200418	A2	29-05-2002
		JP 2002537839	A	12-11-2002
		NO 20014364	A	09-11-2001
		PL 351160	A1	24-03-2003
		WO 0053761	A2	14-09-2000
		US 2003073651	A1	17-04-2003
		US 2003125524	A1	03-07-2003
		US 6307024	B1	23-10-2001
		US 2002128446	A1	12-09-2002
<hr/>				
WO 03028630	A 10-04-2003	US 2003049798	A1	13-03-2003
		WO 03028630	A2	10-04-2003
		US 2003108549	A1	12-06-2003
		US 2004016010	A1	22-01-2004
<hr/>				
WO 03087320	A 23-10-2003	WO 03087320	A2	23-10-2003
<hr/>				
WO 9961617	A 02-12-1999	AU 4208799	A	13-12-1999
		CA 2329274	A1	02-12-1999
		EP 1082433	A1	14-03-2001
		JP 2002516103	T	04-06-2002
		US 6075319	A	13-06-2000
		WO 9961617	A1	02-12-1999
		US 2003092133	A1	15-05-2003
		US 2003003545	A1	02-01-2003
		US 2003186387	A1	02-10-2003
		US 2001023070	A1	20-09-2001
<hr/>				
WO 0210393	A 07-02-2002	AU 7303301	A	13-02-2002
		CA 2416820	A1	07-02-2002
		CN 1443241	T	17-09-2003
		EP 1305419	A2	02-05-2003
		WO 0210393	A2	07-02-2002
		US 2003012788	A1	16-01-2003
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